

CURRICULUM VITAE

NAME: Mathew Longiaru, Ph.D

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BIRTHDATE: December 21, 1951

BIRTHPLACE: New York City, New York

MARITAL STATUS: Married, two children

EDUCATION: City College of New York, C.U.N.Y.
New York, New York
Bachelor of Science, 1975

Long Island University
Brooklyn, New York
Master of Science, 1977

Albert Einstein College of Medicine
Sue Golding Graduate Division
Bronx, New York
Doctor of Philosophy, 1981

RESEARCH AND DEVELOPMENT EXPERIENCE:

February 2000 to Present

Vice-President
Diagnostic Development
Gen-Probe Incorporated

May 1996 to January 2000

Senior Director
Research and Development
Gen-Probe Incorporated

October 1995 to April 1996

Director of Research
Gen-Probe Incorporated

February 1991 to September 1995

Director, Advanced Technology Programs
Gen-Probe Incorporated
San Diego, California

October 1987 to February 1991

Research Group Leader
Molecular Biology/DNA Probes
Roche Diagnostic Systems
Nutley, New Jersey

June 1984 to September 1987

Senior Research Scientist
Diagnostic Research, Hoffmann-LaRoche, Inc.
Nutley, New Jersey

Molecular Cloning and Expression of Bioluminescent
Proteins and Human Retroviral Genes
Development of Diagnostic DNA Probe Assays

January 1984 to May 1984

Research Associate
Department of Molecular Genetics
Hoffmann-LaRoche, Inc.

1981 to 1983

Post Doctoral Fellow
Department of Cell Biology
Roche Institute of Molecular Biology
Nutley, New Jersey
Post Doctoral Advisor - Dr. Anne Skalka

The Role of Retroviral Reverse Transcriptase
in Integrative Recombination

1977 to 1981

Pre Doctoral Fellow
Department of Microbiology and Immunology
Albert Einstein College of Medicine
Bronx, New York

Graduate Thesis Advisor - Dr. Marshall Horwitz
Doctoral Thesis - The DNA Polymerases
Involved in Adeno Virus DNA Replication
1976 to 1977
NSF Grant Research Associate
Long Island University
Brooklyn, New York
Antimicrobial agents directed against
Staphylococcus aureus

HONORS AND FELLOWSHIPS:

Graduate Assistant, Long Island University, 1975 to 1976

National Science Foundation
Grant Research Assistant, 1976 to 1977

Phi Sigma Award, Long Island University, 1977

National Institute of Health
Graduate Traineeship, 1977 to 1981

Postdoctoral Research Fellowship
Roche Institute of Molecular Biology, 1981 to 1983

PROFESSIONAL ORGANIZATIONS:

American Society for Microbiology
American Association for the Advancement of Science
American Association for Clinical Chemistry

COMMITTEES:

Member of the Hoffmann-LaRoche Research Patent
Coordinating Committee. 1989 to 1991

PATENTS:

INVENTION: A fusion protein comprised of epitopes of the HIV I and HTLV I envelope protein, the corresponding gene, and methods for utilizing the products in Diagnostic Assays.

Patent Application: US/June 10, 1988/US S/N 07/205,401

Inventors: Longiaru, M., Scherer, B., and Terry, R.

Assignee: Hoffmann LaRoche, Inc.

INVENTION: Construction and Expression of Synthetic Genes Encoding Envelope Epitopes of the Human T Cell Leukemia Virus Type I.

Patent Application: October 23, 1989

U.S. Patent 5,837,818 issued November 17, 1998

Inventors: Longiaru, M. and Buonagurio, D.

Assignee: Hoffmann LaRoche, Inc.

INVENTION: Detection of *Chlamydia trachomatis* by Polymerase Chain Reaction using Biotin Labeled Lina Primers and Capture Probes
Patent Application: September 29, 1989
US Patent 5,232,829 issued August 3, 1993
Inventors: Longiaru, M., Silver, S., Sulzinski, M.
Assignee: Hoffmann LaRoche, Inc.

INVENTION: Solid Phase DNA Assays with Protein-DNA Oligomer Conjugates
Patent Application: US/May 3, 1991/US S/N 07/695,072
Inventors: Longiaru, M. and Keys, L.D.
Assignee: Hoffmann LaRoche, Inc.

SELECTED ABSTRACTS:

Longiaru, M., Ikeda, J.E., Jarkovsky, Z., Horwitz, S.B., and Horwitz, M.S. Aphidicolin Inhibits the Replication of Adenovirus DNA. The Imperial Cancer Research Fund Tumor Virus Meeting (SV 40, Polyoma and Adenovirus). Churchill College, Cambridge, England. July, 1979.

Hurwitz, J., Ikeda, J.E., Lichy, J., Kaplan, L., Enomoto, T., Ariga, H., Longiaru, M. and Horwitz, M.S. Studies on the *in vitro* Replication of Adenovirus DNA. - Molecular Mechanisms of DNA Synthesis in Cancer Cells. Tokyo, Japan. March, 1980.

Ariga, H., Longiaru, M., Friefeld, B., and Horwitz, M.S. Adenovirus DNA Synthesis: Evidence for Multiple Rounds of Initiation *in vitro*. EMBO Workshop on Molecular Biology of Adenoviruses. Peebles Hotel, Hydro, Scotland, June, 1980.

Longiaru, M., Ariga, H., Friefeld, B., Horwitz, M.S., Ikeda, J.E., Lichy, J., Enomoto, T., and Hurwitz, J. Adenovirus DNA Synthesis: Evidence for Multiple Rounds of Initiation *in vitro*. Cold Spring Harbor Tumor Virus Meeting (SV 40, Polyoma and Adenovirus). August, 1980.

Longiaru, M. The DNA Polymerases Involved in Adenovirus DNA Replication. A Symposium Celebrating the Scientific Achievements of the Graduate Students from the Sue Golding Graduate Division. Albert Einstein College of Medicine. Bronx, N.Y. December, 1980.

Leis, J., Duyk, G., Longiaru, M., and Skalka, A.M. Mechanism of Action of the DNA Endonuclease Associated with the beta-beta and alpha-beta Forms of the ASV Reverse Transcriptase. Cold Spring Harbor RNA Tumor Virus Meeting. May, 1982.

Duyk, G., Leis, J., Longiaru, M., and Skalka, A.M. Selective Cleavage of the RAV-2 LTR Sequence by the Endonuclease Associated with the alpha-beta Form of Reverse Transcriptase. Cold Spring Harbor RNA Tumor Virus Meeting. May, 1984.

Longiaru, M., Duyk, G., Leis, J. and Skalka, A.M. Selective Cleavage of Wild Type and Mutated Double Stranded Retroviral LTR DNA by the Endonuclease Associated with AMV Reverse Transcriptase. Cold Spring Harbor RNA Tumor Virus Meeting. May, 1984.

Skalka, A.M., Duyk, G., Longiaru, M., DeHaseth, P., Terry, R. and Leis, J. Integrative Recombination - A Role for the Retroviral Reverse Transcriptase. Cold Spring Harbor Symposium of Quantitative Biology. June, 1984.

Duyk, G., Longiaru, M., Cobrinik, D., Kowal, R., Katz, R., Skalka, A.M., and Leis, J. Circles with Two Tandem LTR's are Specifically Cleaved by the ASLV Pol Gene - Associated Endonuclease -- Nucleotide Sequences Required for Site-Specific Cleavage. Cold Spring Harbor RNA Tumor Virus Meeting. May, 1985.

Cormier, M.J., Prasher, D.C., Longiaru, M., and McCann, R.D. The Enzymology and Molecular Biology of the Ca²⁺ - Activated Protprotein Aequorin. American Society for Photobiology. Los Angeles, CA June, 1986.

Prasher, D.C., Longiaru, M., and Cormier, M.J. Molecular Biology of Aequorin. Fourth International Symposium on Bioluminescence and Chemiluminescence. September, 1986.

Cormier, M.J., Prasher, D.C., McCann, R.O., and Longiaru, M. Cloning and Expression of cDNA's Coding for the Bioluminescent Protein Aequorin. Fifth International Symposium on Ca²⁺ -Binding Proteins in Health and Disease. Pacific Grove, CA. November, 1986.

Longiaru, M., Scherer, B., Terry, R., Frenkl, T., and Pottathil, R. Development of an Antibody Screening Test for Both HTLV I and HIV I with Recombinantly Expressed Viral Envelope Fusion Proteins. Fourth International Conference on AIDS. Stockholm, Sweden. June, 1988.

Longiaru, M., Buonagurio, D., Terry, R., Pawlyk, D., Genesca, J., Shih, J., Frenkl, T. and Pottathil, R. Development of an Antibody Screening EIA using Recombinantly Expressed HTLV-I in Viral Proteins. Current Issues in Human Retrovirology: HTLV-I Trinidad-Tobago, West Indies. March, 1989.

Frenkl, T., McGhee, B., Lewinski, C., Longiaru, M., Nair, R.N.M., Terry, R., Buonagurio, D., Pawlyk, D., and Pottathil, R. Prevalence of Antibodies Against HIV-I and HTLV-I in African Serum Samples collected during the 1960's. Fifth International Conference on AIDS. Montreal, Canada. June, 1989.

Shih, J., Genesca, J., Frenkl, T., Terry, R., Buonagurio, D., Pawlyk, D., Pottathil, R., and Longiaru, M. Unique Immunoreactivity of a Normal Human Serum with Recombinant HTLV-I ENV Gene Products. Fifth International Conference on AIDS. Montreal, Canada. June, 1989.

Sulzinski, M., Silver, C., Casareale, D., Pottathil, R. and Longiaru, M. A novel, Rapid Non-Radioactive Format for Detection of PCR Amplified HTLV I DNA. Third Annual Retrovirology Conference. Hawaii. February, 1990.

Sulzinski, M., Silver, S., Koopman, A., Barone, A.D. and Longiaru, M. Microtitre Plate Capture and Detection of Biotinylated PCR Products by Oligonucleotide Probes. The American Society for Microbiology Annual Meeting. Anaheim, California. May, 1990.

Longiaru, M., Silver, S., Barone, D., Pawlyk, D. and Sulzinski, M. The Use of PCR and A Colorimetric Microtitre Plate Assay Format For The Detection and Differentiation of HTLV I and II DNA. Sixth International Conference on AIDS. San Francisco, California. June, 1990.

Herman, S., Loeffelholz, M., Silver, S., Purohit, A., Lewinski, C., Buonagurio, D., Molina, M., Rosen, I., Lin, P., Barone, A.D., Keys, L.D., and Longiaru, M. Detection of *Chlamydia trachomatis* in Cervical Specimens Using PCR Combined with a Rapid Sample Preparation Method and an Enhanced Microtiter Plate Detection System. The Fifth San Diego Conference - Nucleic Acids: New Frontiers. San Diego, California. November, 1990.

Silver, S., Lu, S., Herman, S., Buonagurio, D., Loeffelholz, M., Purohit, A., Lewinski, C., White, T., Longiaru, M. and Lawrie, J. DNA Probes/PCR Technology for the Diagnosis of Chlamydia and Gonococcal Infections. Medica 90 plus Biotec. Dusseldorf, West Germany. November, 1990.

Spadoro, J., Sulzinski, M., Butcher, A., Kinard, S., Gallo, D., Hanson, C. and Longiaru, M. Detection and Differentiation of HTLV I and II DNA in Clinical Specimens Using PCR and a Rapid Non-Radioactive Microtiter Plate Assay. Current Issues in Human Retrovirology: HTLV. Montego Bay, Jamaica. February 1991.

Lu, S., Silver, S., Purohit, A., Longiaru, M., and White, T. Detection of *Neisseria gonorrhoeae* and *Chlamydia trachomatis* in a Combined System by PCR. The American Society for Microbiology Annual Meeting. Dallas, Texas. May 1991.

Herman, S., Loeffelholz, M., Buonagurio, D., Silver, S., Lewinski, C. and Longiaru, M. Direct Detection of *Chlamydia trachomatis* in Urogenital Specimens Using a Rapid, PCR-Based Assay System. The American Society for Microbiology Annual Meeting. Dallas, Texas. May 1991.

Buonagurio, D. and Longiaru, M. Use of MOMP Gene PCR-Based Detection System for *Chlamydia trachomatis* to Evaluate Discrepant Clinical Specimens. The American Society for Microbiology Annual Meeting. Dallas, Texas. May 1991.

Spadoro, J., Butcher, A., Kinard, S., Gallo, D., Hanson, C. and Longiaru, M. A Rapid, Non-Radioactive Microtiter Plate Assay to Detect and Differentiate HTLV 1 and 2 DNA. American Association For Clinical Chemistry Annual Meeting. Washington, D.C. August 1991.

Jonas, V., Alden, M., Kamisango, K., Knott, C., Lankford, R. and Longiaru, M. Direct Detection of *Mycobacterium tuberculosis* from Clinical Specimens using the Gen-Probe Transcription Mediated Amplification System. The San Diego Probe Conference, Beyond DNA Probes. San Diego, CA. November 18-20, 1993.

Jonas, V., Acedo, M.E., Alden, M., Kamisango, K., Knott, D.F., Lankford, R., Penny, C.D., and Longiaru, M. Direct Detection of *Mycobacterium tuberculosis* in Clinical Specimens using the Gen-Probe Transcription Mediated Amplification System. Novel Amplification Technologies for DNA/RNA Based Diagnostics. San Francisco, CA April 20-22, 1994.

Gonzales, F.R., Watson, M., Shen, N., Castillo, M., Avina, T., Miyano, M., Talbot, L., Hall, C. and Longiaru, M. Detection of Hepatitis B Virus DNA by Transcription Mediated Amplification. The San Diego Probe Conference, The Genetic Revolution. San Diego, CA. November 17-19, 1994.

Gonzales, F.R., Watson, M., Shen, N., Castillo, M., Avina, T., Miyano, M., Hall, C. and Longiaru, M. HBV DNA Analysis in Serum: A Novel Amplification System (TMA). The American Gastroenterological Association Annual Meeting, San Diego, CA May 15-18, 1995

Gonzales, F.R., Castillo, M., Avina, T., Watson, M., Miyano, M. and Longiaru, M. Specific Detection of HBV DNA in Serum by Transcription Mediated Amplification. 45th Annual Meeting of the American Association for the Study of Liver Disease. Chicago, Illinois. November 3-7, 1995.

Jonas, V. and Longiaru, M. Detection of *Mycobacterium tuberculosis* by Molecular Methods. DNA Technology in the Clinical Laboratory - 5th Annual Seminar on Molecular Pathology. Beaumont Pathology Conferences. Royal Oak, Michigan. March 8-9, 1996.

Jonas, V., Acedo, M., Alden, M., D'Amour, K., Hasselkus-Light, C., and Longiaru, M. Clinical Data Generated with the Second Generation Amplified Mycobacterium Tuberculosis Direct Test. 17th Annual Meeting of the European Society for Mycobacteriology. Institut Pasteur. Paris. June 5-8, 1996.

Clark, K., Light, C., Longiaru, M., Nelson, N., Quigley, T., Santa Ana, S., Weinbaum, B., Catanzariti, L., Kluttz, B., McKinley, G. and Vera-Garcia, M. Development of an Automated VIDAS Test for the Amplified Detection of *Mycobacterium tuberculosis* rRNA from Respiratory Specimens. 97th ASM General Meeting. Miami Beach, Florida. May 4-8, 1997.

Vera-Garcia, M., Wells, P., Lauzier, W., Ranieri, A., Kluttz, B., Moe, J., Levasseur, P., McKinley, G., Burns, J., Clark, K., Longiaru, M., and Catanzariti, L. Rapid Amplified Detection of *Chlamydia trachomatis* rRNA from Urogenital Specimens Using the Vidas Immunoassay Instrument. 97th ASM General Meeting. Miami Beach, Florida. May 4-8, 1997.

Clark, K., Knott, C., Light, C., Longiaru, M., Quigley, T., Santa Ana, S., Weinbaum, B., Catanzariti, L., McKinley, G., Moe, J., Vera-Garcia, M. Development of an Amplified VIDAS Test for the Detection of *Mycobacterium tuberculosis* (Mtb) from Sputum Sediments. 8th European Congress of Clinical Microbiology and Infectious Diseases. Lausanne, Switzerland. May 25-28, 1997.

Vera-Garcia, M., Wells, P., Lauzier, W., Ranieri, A., Obrien, W., Kluttz, B., Moe, J., McKinley, G., Burns, J., Clark, K., Longiaru, M., and Catanzariti, L. Development of an Amplified Vidas Test for the Detection of *Chlamydia trachomatis* from Urogenital Samples. 8th European Congress of Clinical Microbiology and Infectious Diseases. Lausanne, Switzerland. May 25-28, 1997.

Clark, K., Knott, C., Light, C., Longiaru, M., Nelson, N., Quigley, T., Santa Ana, S., Weinbaum, B., Catanzariti, L., Kluttz, B., McKinley, G., Moe, J., Vera-Garcia, M. Adaptation of the Gen-Probe rRNA-Amplified *Mycobacterium tuberculosis* Direct Test to the Automated VIDAS Instrument. 49th AACC Annual Meeting and Clinical Laboratory Exposition. Atlanta, Georgia. July 20-24, 1997.

Baijot, M.J., Catanzariti, L., Longiaru, M. and McKinley, G. VIDAS Dual Platform: Immunoassay and Molecular Biology Testing on one Instrument. ASM Conference: Molecular Diagnostics and Therapeutics. Kananaskis, Alberta, Canada. August 15-19, 1997.

Clark-Dickey, K., Hasselkus-Light, C., Knott, C., Longiaru, M., Nelson, N., Quigley, T., Santa Ana, S., Weinbaum, B., Catanzariti, L., Kluttz, B., McKinley, G., Moe, J. and Vera-Garcia, M. Adapting the Gen-Probe rRNA-Amplified *Mycobacterium tuberculosis* Direct Test to the Automated VIDAS Instrument. The San Diego Conference: Nucleic Acid Technology. November 6-8, 1997.

Hasselkus-Light, C., Burns, J., Clark-Dickey, K., Longiaru, M., Lugo, L., Quigley, T., Santa Ana, S., Sitay, A., Weinbaum, B., McKinley, G. and Moe, J. Improvements to the rRNA-Amplified Direct *Mycobacterium tuberculosis* Test for the Automated VIDAS Instrument. 98th ASM General Meeting. Atlanta, Georgia. May 17-21, 1998.

Burres, B., Santa Ana, S., Levasseur, P., Moe, J., Lauzier, W., and Longiaru, M. A Prototype Amplified *Neisseria gonorrhoeae* Assay for the VIDAS Instrument. 98th ASM General Meeting. Atlanta, Georgia. May 17-21, 1998.

Vera-Garcia M., Wells, P., Ranieri, A., McKinley, G., Clark, K., Longiaru, M., Burg, L., and Catanzariti, L. A Co-Amplified Internal Control eliminates false negative results from TMA Amplified VIDAS Assay for *Chlamydia trachomatis*. 98th ASM General Meeting. Atlanta, Georgia. May 17-21, 1998.

Burns, J., Clark-Dickey, K., Hasselkus-Light, C., Longiaru, M., Lugo, L., Quigley, T., Santa Ana, S., Sitay, A., Weinbaum, B., McKinley, G., and Moe, J. Novel Enhancements to the Gen-Probe Amplified *Mycobacterium tuberculosis* Test for the Automated VIDAS Instrument. 50th AACC Annual Meeting and Clinical Laboratory Exposition. Chicago, Illinois. August 2-6, 1998.

Burres, E., Santa Ana, S., Clark-Dickey, K., Longiaru, M., Moe, J., Lauzier, W and Levasseur, P. An Amplified *Neisseria gonorrhoeae* Assay for the Automated VIDAS Instrument. 50th AACC Annual Meeting and Clinical Laboratory Exposition. Chicago, Illinois. August 2-6, 1998.

Vera-Garcia M., Wells, P., Raneri, A., Welch, A., McKinley, G., Clark, K., Longiaru, M., Burg, L., and Catanzariti, L. Inclusion of a Recombinant Internal Control Molecule in the TMA Amplified VIDAS Assay for *Chlamydia trachomatis*. 50th AACC Annual Meeting and Clinical Laboratory Exposition. Chicago, Illinois. August 2-6, 1998

Clark-Dickey, K., Burns, J., Hasselkus-Light, C., Longiaru, M., Lugo, L., Quigley, T., Santa Ana, S., Sitay, A., Weinbaum, B., McKinley, G. and Moe, J. Amplified *Mycobacterium tuberculosis* test for the automated VIDAS instrument. European Society for Mycobacterology Meeting. Lisbon, Portugal. July 21-25, 1998.

Burres, E., Santa Ana, S., Gilker, M., Clark-Dickey, K., Longiaru, M., Moe, J., and Lavasseur, P. A *Neisseria gonorrhoeae* Transcription-Mediated Amplification Assay for the Automated VIDAS Instrument. The San Diego Conference: DNA Technologies In Human Disease Detection. November 19-21, 1998.

Clark-Dickey, K., Burns, J., Darby, P., Longiaru, M., Lugo, L., Quigley, T., Sitay, A., and McKinley, G. Amplified *Mycobacterium tuberculosis* test for the Automated VIDAS Instrument Includes Internal Control. The San Diego Conference: DNA Technologies In Human Disease Detection. November 19-21, 1998.

Clark-Dickey, K., Longiaru, M., Quigley, T., Sitay, A., Weinbaum, B., Catanzariti, L., and McKinley, G. Automation of Amplification for the VIDAS Probe *Mycobacterium tuberculosis* Test. 9th European Congress of Clinical Microbiology and Infections Diseases. Berlin, German. March 21-26, 1999.

Longiaru, M., Burres, E., Gilker, M., Santa Ana, S., Wang, T., and Rice, B. Amplification Automation of the VIDAS Probe *Neisseria gonorrhoeae* Test. 9th European Congress of Clinical Microbiology and Infectious diseases. Berlin, Germany. March 21-24, 1999.

Clark-Dickey, K., Longiaru, M., Quigley, T., Sitay, A., and McKinley, G. Enhancements to the VIDAS probe *Mycobacterium tuberculosis* Test. 99th General Meeting of ASM. Chicago, Illinois. May 30 - June 3, 1999.

Burres, E., Gilker, M., Longiaru, M., Wang, T., Rice, B., and Fuller, D. Enhancements to the VIDAS Probe *Neisseria gonorrhoeae* Test. 99th General Meeting of ASM. Chicago, Illinois. May 30 - June 3, 1999.

Clark-Dickey, K., Burns, J., Longiaru, M., Quigley, T., Sitay, A., Rice, B., and Catanzariti, L. Automation of the VIDAS Probe *Mycobacterium tuberculosis* Test. 51st AACC Annual Meeting and Clinical Laboratory Exposition. New Orleans, Louisiana. July 25-29, 1999.

Burres, B., Gilker, M., Hodge, P., Johnson, R., Darby, P., Longiaru, M., Wang, T., and Rice, B. Automation of the VIDAS Probe *Neisseria gonorrhoeae* Test. 51st AACC Annual Meeting and Clinical Laboratory Exposition. New Orleans, Louisiana. July 25-29, 1999.

Clark-Dickey, K., Longiaru, M., Quigley, T., Sitay, A. and McKinley, G. Enhancements to the VIDAS PROBE *Mycobacterium tuberculosis* test. The San Diego Conference: Nucleic Acid Technologies in Disease Detection. San Diego, California. November 17-19, 1999.

Burres, B., Gilker, M., Hodge, P., Longiaru, M., Wang, T. and Rice, B. Enhancements to the VIDAS PROBE *Neisseria gonorrhoeae* Test. The San Diego Conference: Nucleic Acid Technologies in Disease Detection. San Diego, California. November 17-19, 1999.

Clark-Dickey, K., Clymer, J.J., Longiaru, M., Quigley, T., Sitay, A., Weinbaum, B., Weeks, P., McKinley G., Rice B. and Orlov, J. Evaluation of the VIDAS PROBE *Mycobacterium tuberculosis* Test. 100th General Meeting of ASM. Los Angeles, California. May 21-25, 2000.

Burres, B., Gilker, M., Hodge, P., Longiaru, M., Lauzier, B., Morin, M., Wang, T. and Keys, D. Development of the VIDAS PROBE *Neisseria gonorrhoeae* Test, an Automated Molecular Diagnostic Assay. 100th General Meeting of ASM. Los Angeles, California. May 21-25, 2000.

Johnson, R.W., Hern, A., Traverse, A., Wells, P., Kacena, K., Longiaru, M., Kuchimanchi, S., and Keys, D. Development of the VIDAS PROBE *Chlamydia trachomatis* test, an Automated Molecular Diagnostic Assay. 100th General Meeting of ASM. Los Angeles, California. May 21-25, 2000.

Traverse, A., Kacena, K., Wells, P., Johnson, R., Hern, A., Connolly, J., Longiaru, M., McKinley, G., and Keys, D. Comparison of VIDAS PROBE with the LCx for Detection of *Chlamydia trachomatis* in Urine and Genital Swab Specimens from Females and Males. 100th General Meeting of ASM. Los Angeles, California. May 21-25, 2000.

Longiaru, M., Clark-Dickey, K., Clymer, J., Keys, D., Kuchimanchi, S., Quigley, T., Rice, B., and Sitay, A. Assessment of the VIDAS PROBE *Mycobacterium tuberculosis* test. 10 European Congress of Clinical Microbiology and Infections Diseases (ECCMID). Stockholm, Sweden. May 28-31, 2000.

Johnson, R., Connolly, J., Hern, A., Kacena, K., Keys, D., Longiaru, M., McKinley, G., Traverse, A., and Wells, P. Comparing VIDAS PROBE CT and Gen-Probe Amplified CT for Detecting *Chlamydia trachomatis*. 10th European Congress of Clinical Microbiology and Infections Diseases (ECCMID). Stockholm, Sweden. May 28-31, 2000.

Johnson, R., Hern, A., Kacena, K., Keys, D., Kuchimanchi, S., Longiaru, M., Traverse, A., and Wells, P. Evaluation of the VIDAS PROBE *Chlamydia trachomatis* test. 10th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID). Stockholm, Sweden. May 28-31, 2000.

Burres, B., Gilker, M., Hodge, P., Longiaru, M., Lauzier, B., Morin, M., Wang, T., and Keys, D. The VIDAS PROBE *Neisseria gonorrhoeae* test, an automated Molecular Diagnostic Assay. 52nd Annual AACC Meeting. San Francisco, CA, July 23-27, 2000.

INVITED LECTURES:

Longiaru, M. PCR and the Use of Molecular Biological Techniques in Clinical Diagnostics. 16th National Meeting of the Clinical Ligand Assay Society. Philadelphia, PA. May 2-5, 1990.

Longiaru, M. Polymerase Chain Reaction: Hybridization Formats and Signal Detection Systems. 91st General Meeting of the American Society for Microbiology. Dallas, Texas May 5-9, 1991.

Longiaru, M. Post Amplification Detection Formats. Mayo Clinic - Clinical Microbiology Reviews. Rochester, MN. August 5-7, 1991.

Longiaru, M. Advances in Nucleic Acid Amplification and Detection Technologies. 8th Annual Combined Fall Conference - American Society for Microbiology. Northern California Association of Public Health Microbiologists. San Mateo, California October 17-19, 1991.

Longiaru, M. Hybridization Protection Assay (HPA): A homogenous method for the chemiluminescent detection of nucleic acids and its application to infectious disease diagnostics. Science Innovation '92 - New Techniques and Instruments in Biomedical Research. San Francisco, California July 21-25, 1992.

Longiaru, M. Introduction and Update on DNA Probe Technology. The Current Approach to the Laboratory Diagnosis of Mycobacteria. Industrial Technology Research Institute - Application of DNA Probe in Diagnostic Technology. Taipei, Taiwan ROC March 1-5, 1993.

Longiaru, M. Recent Advances in Rapid TB Diagnosis. Advanced Technology Seminar Series. 33rd Interscience Conference on Antimicrobial Agents and Chemotherapy. New Orleans, Louisiana October 19, 1993.

Longiaru, M. Clinical Evaluation of the Gen-Probe Amplified System for Direct Detection of *Mycobacterium tuberculosis*. The 94th General Meeting of the American Society for Microbiology. Las Vegas, Nevada May 23-27, 1994

Longiaru, M. Probes in DNA/RNA Hybridization. Contemporary Assessment of Technologies. A Pre-Convention Workshop at IABS/UCSF Symposium on Molecular Approaches to Laboratory Diagnosis. San Francisco, CA February 18-21, 1995.

Longiaru, M. Applications of Transcription Mediated Amplification (TMA). IBC's Diagnostic Gene Detection Technology for Infectious Agents and Human Genetic Diseases. San Diego, CA. May 2-3, 1996.

Longiaru, M. Nucleic Acid Probe Technology and Molecular Diagnostics. Northeast Section of the AACC Seminar Series. Waltham, Massachusetts. September 23, 1999.

PUBLICATIONS:

Longiaru, M., Ikeda, J.E., Jarkovsky, S., Horwitz, S.B. and Horwitz, M.S., 1979. The Effect of Aphidicolin on Adenovirus DNA Synthesis. *Nucleic Acids Research*, 6:3369-3386.

Ikeda, J.D., Longiaru, M., Horwitz, M.S., and Hurwitz, J., 1980. Elongation of Primed DNA Templates by eukaryotic DNA Polymerases, *Proc. Natl. Acad. Sci., U.S.A.* 77:5827-5831.

Longiaru, M., and Horwitz, M.S., 1981. Chinese hamster Ovary Cells Replicate Adenovirus DNA. *Mol. Cell Biol.* 1:208-215.

Leis, J., Duyk, G., Johnson, S., Longiaru, M., and Skalka, A.M. 1982. The Mechanism of Action of the Endonuclease Associated with the beta-beta and alpha-beta Forms of Avian RNA Tumor Virus Reverse-Transcriptase. *J. Virol.* 45:727-739.

Duyk, G., Leis, J., Longiaru, M. and Skalka, A.M. 1983. Selective Cleavage in the Avian Retroviral LTR Sequence by the Endonuclease Associated with the alpha-beta form of Avian Reverse Transcriptase. *Proc. Natl. Acad. Sci. U.S.A.* 80:6745-6749.

Skalka, A.M., Duyk, G., Longiaru, M., DeHaseth, P., Terry, R. and Leis, J. 1984. Integrative Recombination - A Role for the Retroviral Reverse Transcriptase. Cold Spring Harbor Symposium. Quant. Biol. 49:651-659.

Duyk, G., Longiaru, M., Cobrinick, D., Kowal, R., DeHaseth, P. Skalka, A.M. and Leis, J. 1985. Circles with two tandem Long Terminal Repeats are specifically cleaved by Pol Gene-Associated endonuclease from Avian Sarcoma and Leukosis Viruses: Nucleotide sequences required for site specific cleavage. J. Virol. 56 589-599.

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